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1 Flow and stretch metrics for scheduling continuous job streams
   Michael A. Bender, Soumen Chakrabarti, S. Muthukrishnan
   January 1998 SODA '98: Proceedings of the ninth annual ACM-SIAM
              symposium on Discrete algorithms
   Publisher: Society for Industrial and Applied Mathematics
   Full text available: 📄 pdf(1.11 MB) Additional Information: full citation, references, cited by,
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2 Evaluating design alternatives for reliable communication on high-
❖ speed networks
   Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H.
   Hofman
   December 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue
                                          5
   Publisher: ACM
                        Additional Information: full citation, abstract,
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     We systematically evaluate the performance of five implementations of a
     single, user-level communication interface. Each implementation makes
     different architectural assumptions about the reliability of the network
     hardware and the capabilities of the ...

3 Analysis of source policy and its effects on TCP in rate-controlled
   ATM networks
   Lampros Kalampoukas, Anujan Varma
   October 1998 IEEE/ACM Transactions on Networking (TON), Volume 6
                Issue 5
   Publisher: IEEE Press
   Full text available: 📄 pdf(380.91 KB) Additional Information: full citation, references, cited
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Keywords: TCP over ATM, available bit rate (ABR) service, rate control

4 Spread-sprectrum CDMA packet radio MAC protocol using channel
   overload detection and blocking
   Garth Judge, Fambirai Takawira
   December 2000 Wireless Networks, Volume 6 Issue 6
   Publisher: Kluwer Academic Publishers

   Full text available: pdf(283.75 KB)   Additional Information: full citation, abstract,
                                                                references, index terms

   An analytical and simulation performance evaluation is presented for a
   multi‐access protocol for a data packet radio network with a
   limited user capacity. The network employs direct‐sequence code
   division multiple access (DS‐CDMA) ...

5 On-demand multicast routing protocol in multihop wireless mobile
   networks
   Sung Ju Lee, William Su, Mario Gerla
   December 2002 Mobile Networks and Applications, Volume 7 Issue 6
   Publisher: Kluwer Academic Publishers

                                           Additional Information: full citation, abstract,
   Full text available: pdf(248.93 KB)   references, cited by, index
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   An ad hoc network is a dynamically reconfigurable wireless network with
   no fixed infrastructure or central administration. Each host is mobile and
   must act as a router. Routing and multicasting protocols in ad hoc
   networks are faced with the challenge ...

   Keywords: ad hoc networks, mobile computing, multicast, routing

6 An efficient primary-segmented backup scheme for dependable real-
   time communication in multihop networks
   Krishna Phani Gummadi, Madhavarapu Jnana Pradeep, C. Siva Ram Murthy
   February 2003 IEEE/ACM Transactions on Networking (TON), Volume 11
                 Issue 1
   Publisher: IEEE Press

                                           Additional Information: full citation, abstract,
   Full text available: pdf(606.18 KB)   references, cited by, index
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   Several distributed real-time applications (e.g., medical imaging, air
   traffic control, and video conferencing) demand hard guarantees on the
   message delivery latency and the recovery delay from component
   failures. As these demands cannot be met in traditional ...

   Keywords: backup channel, backup multiplexing, dependable
   connection, multihop network, primary channel, quality-of-service
   (QoS), real-time communication, resource reservation protocol (RSVP),
   segmented backup

7 Network routing with path vector protocols: theory and applications

João Luís Sobrinho
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on
        Applications, technologies, architectures, and protocols for
        computer communications
Publisher: ACM

Full text available: pdf(266.53 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Path vector protocols are currently in the limelight, mainly because the inter-domain routing protocol of the Internet, BGP (Border Gateway Protocol), belongs to this class. In this paper, we cast the operation of path vector protocols into a broad algebraic ...

Keywords: BGP, algebra, border gateway protocol, path vector protocols

8 MAC protocol and traffic scheduling for wireless ATM networks
Nikos Passas, Lazaros Merakos, Dimitris Skyrianoglou, Frédéric Bauchot, Gérard Marmigère, Stéphane Decrauzat
September 1998 Mobile Networks and Applications, Volume 3 Issue 3
Publisher: ACM

Full text available: pdf(802.71 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

The Medium Access Control (MAC) protocol defined in the Wireless ATM Network Demonstrator (WAND) system being developed within the project Magic WAND is presented. Magic WAND is investigating extensions of ATM technology to cover wireless customer premises ...

9 The deflection self-routing Banyan network: a large-scale ATM switch using the fully adaptive self-routing and its performance analyses
Jae-Hyun Park, Hyunsoo Yoon, Heung-Kyu Lee
August 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 4
Publisher: IEEE Press

Full text available: pdf(418.66 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: ATM switch, algecraic formalism, deflection self-routing Banyan network, performance evaluation, topological properties, unbuffered Banyan network

10 An integrated environment for testing mobile ad-hoc networks
Yongguang Zhang, Wei Li
June 2002 MobiHoc '02: Proceedings of the 3rd ACM international
        symposium on Mobile ad hoc networking & computing
Publisher: ACM

Full text available: pdf(315.26 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Mobile Ad-Hoc Network (MANET) has become an increasingly active research area with a plethora of work in ad-hoc routing, media access, and protocols, etc. However, much of the work so far has been in simulation with only a few systems that have ever ...

Keywords: MANET, emulation, mobile ad hoc networks, multi-hop routing, packet filter, testbed

11 The network is the database: data management for highly distributed systems
Julio C. Navas, Michael Wynblatt
June 2001 ACM SIGMOD Record, Volume 30 Issue 2
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(448.84 KB)　　　　　　　references, cited by, index
terms

This paper describes the methodology and implementation of a data management system for highly distributed systems, which was built to solve the scalability and reliability problems faced in a wide area postal logistics application developed at Siemens. ...

Keywords: distributed data management, logistics, sensor networks, wide-area data management

12 Locality-preserving randomized oblivious routing on torus networks
Arjun Singh, William J. Dally, Brian Towles, Amit K. Gupta
August 2002 SPAA '02: Proceedings of the fourteenth annual ACM
symposium on Parallel algorithms and architectures
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(277.17 KB)　　　　　　　references, cited by, index
terms

We introduce *Randomized Local Balance* (RLB), a routing algorithm that strikes a balance between locality and load balance in torus networks, and analyze RLB's performance for benign and adversarial traffic permutations. Our results show that RLB ...

Keywords: interconnection networks, k-ary n cubes, locality-preserving, oblivious packet routing, randomized

13 Energy, congestion and dilation in radio networks
Friedhelm Meyer auf de Heide, Christian Schindelhauer, Klaus Volbert, Matthias Grünewald
August 2002 SPAA '02: Proceedings of the fourteenth annual ACM
symposium on Parallel algorithms and architectures
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(260.44 KB)　　　　　　　references, cited by, index
terms

We investigate the problem of path selection in radio networks for a given set of sites in two-dimensional space. For some given static point-

to-point communication demand we define measures for congestion, energy consumption and dilation that take interferences ...

Keywords: radio networks, routing, wireless communication

14 An introduction to active network node operating systems
Parveen Patel
December 2002 Crossroads, Volume 9 Issue 2
Publisher: ACM

Full text available: htm(31.51 KB)   Additional Information: full citation, references, index terms

15 Prioritized resource allocation for stressed networks
Cory C. Beard, Victor S. Frost
October 2001 IEEE/ACM Transactions on Networking (TON), Volume 9 Issue 5
Publisher: IEEE Press

Full text available: pdf(253.05 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Overloads that occur during times of network stress result in blocked access to all users, independent of importance. These overloads can occur because of degraded resource availability or abnormally high demand. Public broadband networks must dynamically ...

Keywords: Computer network performance, resource management

16 Evaluation of packet scheduling algorithms in mobile ad hoc networks
Byung-Gon Chun, Mary Baker
June 2002 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 6 Issue 3
Publisher: ACM

Full text available: pdf(398.37 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We examine the queuing dynamics at nodes in an ad hoc mobile network and evaluate network performance under different packet scheduling algorithms using Dynamic Source Routing (DSR) and Greedy Perimeter Stateless Routing (GPSR) as the underlying routing ...

17 End-to-end delay analysis of videoconferencing over packet-switched networks
Mario Baldi, Yoram Ofek
August 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 4
Publisher: IEEE Press

Full text available: pdf(266.78 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: MPEG, end-to-end delay, performance guarantees, quality of service, time-driven priority, videoconference

18 Optimization flow control—I: basic algorithm and convergence
Steven H. Low, David E. Lapsley
December 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 6
Publisher: IEEE Press
Full text available: 📄 pdf(960.19 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: asynchronous algorithm, congestion pricing, convergence, gradient projection, optimization flow control

19 Evaluation of pipelined dilated banyan switch architectures for ATM networks
Mayez A. Al-Mouhamed, Mohammed Kaleemuddin, Habib Yousef
October 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 5
Publisher: IEEE Press
Full text available: 📄 pdf(349.00 KB)   Additional Information: full citation, references, cited by, index terms

20 Adaptive wavelength routing in all-optical networks
Ahmed Mokhtar, Murat Azizoğlu
April 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 2
Publisher: IEEE Press
Full text available: 📄 pdf(263.43 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: adaptive routing, all-optical networks, blocking performance, wavelength assignment, wavelength routing

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